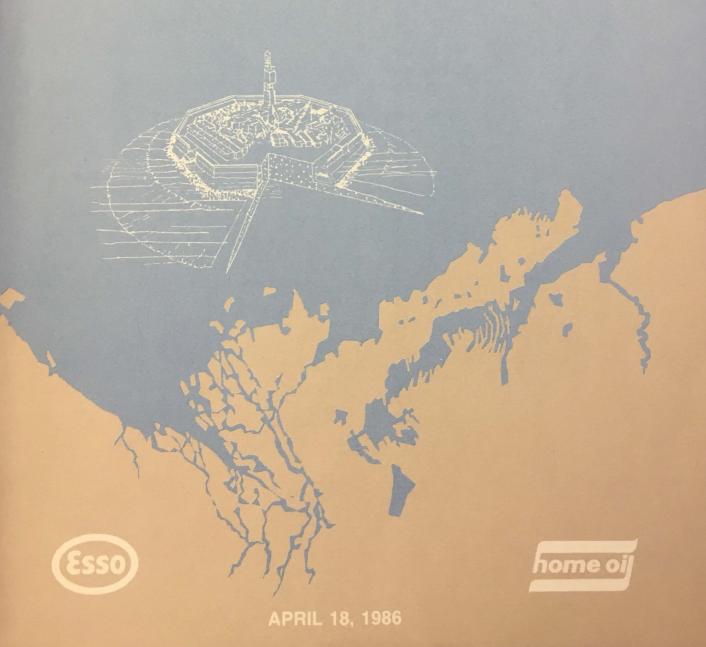
MACKENZIE DELTA-BEAUFORT SEA Exploration Agreements

CANADIAN BENEFITS
ANNUAL REPORT – 1985



ESSO RESOURCES CANADA LIMITED

MACKENZIE DELTA - BEAUFORT SEA EXPLORATION AGREEMENTS

CANADIAN BENEFITS ANNUAL REPORT 1985

April 18, 1986

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1.0 INTRODUCTION

1.1 PREFACE

PREFACE 1.1.1 Report Scope

This 1985 Canadian Benefits Annual Report is provided to meet commitments of the Canada Benefits Program associated with the Exploration Agreements between Esso Resources Canada Limited (Esso) and the Canada Oil and Gas Lands Administration (COGLA). The Canadian Benefits Program is described in the document "Canadian Benefits Associated with the Mackenzie Delta-Beaufort Sea Exploration Agreements" of April 1, 1982.

This report:

- o summarizes Esso's field activities for 1985
- o provides status reports for 1985 on Canadian and Northern Benefits in the Beaufort covering:
 - . expenditures
 - . employment and training
 - . supplier development
- o provides updates of Esso's 1986 exploration activities
- o indicates the forecasts for 1986 for:
 - . Northern and Canadian expenditures
 - . Northern and Canadian employment

The content and layout of the report follow the instructions for annual reports issued by COGLA in February, 1985.

This report does not contain statements of Esso's policies for Canadian and Northern benefits, procurement, employment, environmental or other matters. These policy statements have either been issued separately or were contained in the:

- O Mackenzie Delta-Beaufort Sea Exploration Agreements, April 1, 1982
- o Mackenzie Delta-Beaufort Sea Canadian Benefits 1982 Annual Report, issued April 15, 1983

1.1.2 Program Associates

The companies participating in the Exploration Agreements as of December 31, 1985 were:

- 0 AT&S Exploration Ltd.
- 0 Alberta Energy Company Ltd.
- 0 Beau Canada Exploration Ltd.
- 0 Bow Valley Industries Ltd.
 - Canalands Resources Corporation
- 0 Canterra Energy Ltd.
- 0 Esso Resources Canada Limited
- 91.31693-13191-0 Home Oil Company Limited Lochiel Exploration Ltd.
 - Lochiel Exploration Ltd.
 - 0 MLC Oil and Gas Ltd.
 - Oakwood Petroleums Ltd. 0
 - 0 Petro-Canada Inc.

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0 Trillium Exploration Corporation

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connect efforts issued by CDGLA to February, 1995

Westcoast Petroleum Ltd.

Home Oil Company Limited is the operator of the exploration program. Esso is the agent for implementing the program.

1.1.2 Program Associates

The companies participating in the Exploration Agreements as of December 31, 1985 were:

- AT&S Exploration Ltd. 0
- Alberta Energy Company Ltd. 0
- 0 Beau Canada Exploration Ltd. and distributions to the contract of the contr
 - Bow Valley Industries Ltd.
 - Canalands Resources Corporation
 - Canterra Energy Ltd.
- 0 0 Esso Resources Canada Limited
- Home Oil Company Limited
 - Lochiel Exploration Ltd. 0
 - MLC Oil and Gas Ltd.
 - Oakwood Petroleums Ltd. 0
 - Petro-Canada Inc. 0
 - Trillium Exploration Corporation 0

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amount reports issued by COCKA in February, 1985.

Westcoast Petroleum Ltd. 0

Home Oil Company Limited is the operator of the exploration program. Esso is the agent for implementing the program.

1.2

PROGRAM OVERVIEW 1.2.1 1985 Activities

The 1985 drilling program in the Beaufort met or exceeded the employment and business forecasts contained in the Exploration Agreements.

The Canadian content of the Beaufort exploration program was 84% in 1985, 7% higher than last year. From 1982 to 1985, the Canadian content has grown steadily from 62% to this current level. Northern expenditures increased to \$63.3 million in 1985 from \$20.9 million in 1984. Northern employment increased to 3,588 workmonths in 1985 from 2,767 workmonths in 1984.

The following were the drilling, construction, and seismic activities in 1985:

Drilling

In 1985, Esso drilled 13 wells in the Beaufort area, 6 offshore and 7 onshore.

The following is a list of the 1985 offshore wells (Figure 1) and their status:

- Amerk 0-09 was spudded on August 23, 1984 and abandoned on March 3, 1985.
- Nipterk L-19 was spudded on October 3, 1984 and abandoned on March 23, 1985.
- Nipterk L-19A was spudded on April 21, 1985 and abandoned on July 24, 1985. This well was directionally drilled to delineate the oil discovery of Nipterk
- o Adgo H-29 was spudded on September 14, 1984 and abandoned on January 12, 1985.
- o Adgo G-24 was spudded on October 7, 1985 and abandoned on January 24, 1986.
- o Minuk I-53 was spudded on November 27, 1985 and is still being drilled.

The spudding of Minuk I-53 was delayed about three weeks because of a severe storm on September 16 and 17, 1985

BEAUFORT OFFSHORE EXPLORATION SITES

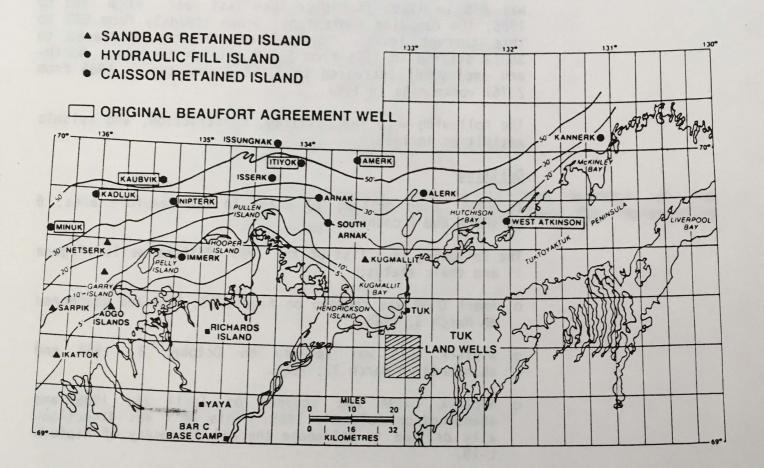


FIGURE 1

o Adap M-29 was specied on September 14, 1984 ord

which extensively damaged the drilling rig, associated equipment and materials on the island. The site had to be repaired and another rig had to be moved onto the island.

The Kaubvik I-43 well was to be drilled in the summer of 1985 from a caisson-retained island which was to be moved from the Amerk site. This did not occur because ice did not allow the caisson to be moved. Drilling of this well is scheduled for the fourth quarter of 1986.

The following is a list of the 1985 onshore wells (Figure 2) and their status:

- o Tuk J-29 was spudded on January 10, 1985 and abandoned on April 20, 1985.
- o Itkrilek B-52 was spudded on March 21, 1985 and abandoned on April 4, 1985.
- o Taglu H-06 was spudded on March 26, 1985 and abandoned on September 5, 1985.
- o Tuk H-30 was spudded on April 22, 1985 and abandoned on May 6, 1985.
- o Tuktuk A-12 was spudded on December 3, 1985 and abandoned on February 12, 1986.
- o Tuk G-39 was spudded on December 5, 1985 and abandoned on January 6, 1986.
- o Tuk B-40 was spudded on December 8, 1985 and abandoned on January 9, 1986.

The last four onshore wells are part of a seven-well Tuk tertiary program initiated following the discovery of oil at Tuk J-29 and Tuk H-30.

Figure 3 shows the 1985 drilling schedule for the Beaufort onshore and offshore exploration wells.

Construction and Support

The following were the offshore construction and support activities in 1985 (see Figure 3):

o The caisson was removed from the Amerk site for moving to the Kaubvik site.

BEAUFORT ONSHORE EXPLORATION WELLS

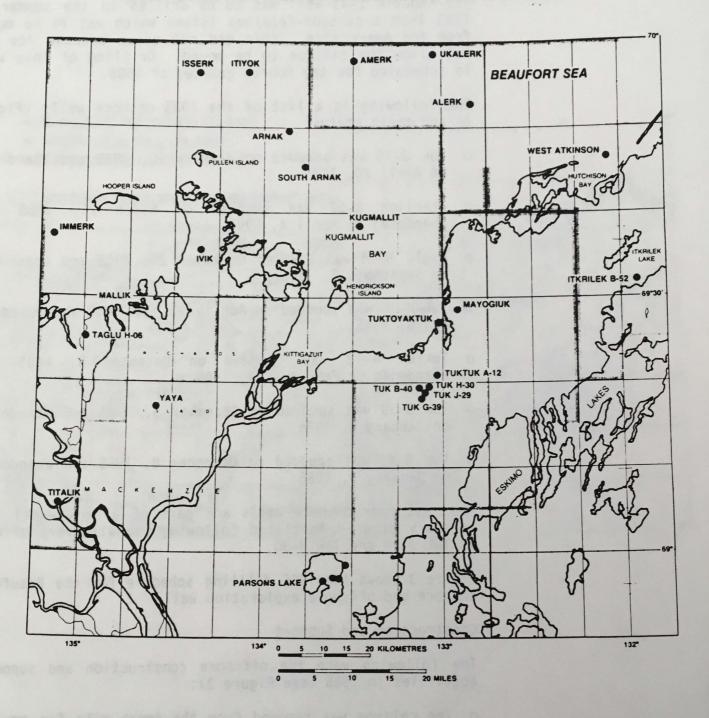
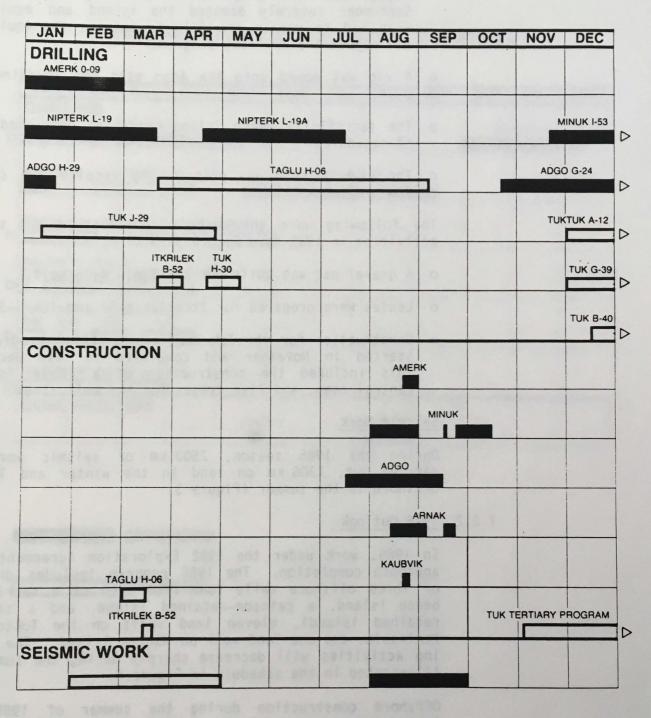


FIGURE 2

1985 BEAUFORT EXPLORATION SCHEDULE



OFFSHORE ONSHORE

- O The sacrificial beach island Minuk was completed in August and then prepared for drilling. The storm in September severely damaged the island and equipment. Esso had to repair the island, salvage the equipment, and adjust the drilling program.
- O A rig was moved onto the Adgo site for spudding Adgo G-24.
- The sacrificial beach island Arnak was completed ahead of schedule.
- o The Kaubvik berm was prepared to receive the caisson from Amerk.

The following were the onshore construction and support activities in 1985 (see Figure 3):

- o A gravel pad was built for the Taglu H-06 well.
- o Leases were prepared for Itkrilek B-52 and Tuk H-30.
- o Construction for the Tuk tertiary drilling program was started in November and completed in late December. This included the construction of a lease for the central camp, and five leases for the well sites.

Seismic Work

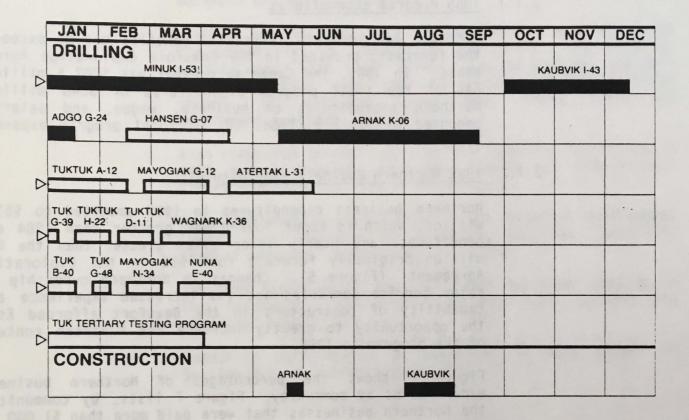
During the 1985 season, 2600 km of seismic work was carried out, 1300 km on land in the winter and 1300 km offshore in the summer (Figure 3).

1.2.2 1986 Outlook

In 1986, work under the 1982 Exploration Agreements will approach completion. The 1986 program includes drilling of three offshore wells (one from each of a sacrificial beach island, a caisson-retained island, and a sandbag-retained island), eleven land wells on the Tuktoyaktuk Peninsula, and one land well on Hansen Island. The drilling activities will decrease sharply during the summer as illustrated in the schedule in Figure 4.

Offshore construction during the summer of 1986 will include preparation of the Kaubvik berm and the transfer and placement of the caisson at Kaubvik. Also, the Arnak site will be repaired and prepared for drilling. Onshore, the land drilling sites and shoreline will be cleaned up.

1986 BEAUFORT EXPLORATION SCHEDULE



OFFSHORE
ONSHORE

FIGURE 4

2.0 INDUSTRIAL BENEFITS

2.1 ASSESSMENT

2.1.1 1985 Program Expenditures

Canadian and Northern Industrial Benefits met or exceeded the forecasts provided in the Beaufort Exploration Agreements. In 1985, the Canadian content was \$207.5 million, 84% of the total program expenditures of \$248 million. Northern expenditures on business, wages, and salaries amounted to \$63.3 million, 26% of total program expenditures.

2.1.2 1985 Northern Business Expenditures

Northern business expenditures in 1985 amounted to \$53.3 million, which is about four times greater than 1984 expenditures, and nearly three times greater than the \$18 million originally forecast for 1985 in the Exploration Agreements (Figure 5). Changes in Northern ownership of major service companies and the increased experience and capability of contractors in the Beaufort afforded Esso the opportunity to greatly increase the Northern content of the program in 1985.

Figure 6 shows the percentages of Northern business expenditures by community. Figure 7 lists, by community, the Northern businesses that were paid more than \$1,000 in 1985.

2.1.3 Forecast of 1986 Expenditures

The updated estimates of expenditures for the 1986 exploration program are \$178 million. This is \$70 million less than in 1985 and reflects significantly lower requirements for goods and services in 1986.

Canadian content will increase slightly in 1986 because dredging costs and foreign charges for financing the caisson will be significantly lower. The Northern expenditures will probably not exceed \$29.0 million (Figure 5).

2.1.4 Consultation

During 1985, Esso continued consultation with governments, communities, business associates and special interest groups to discuss the exploration program's impact on business. Fewer special meetings were needed than in past

years because of the good working relationships Esso has developed with businesses and communities in the North. Northern communities and businesses were contacted regularly by Esso representatives during the course of normal business. Further details are presented in Section 2.2.2, Northern Business Development.

Most of the meetings held in the Beaufort area were with the communities of Tuktoyaktuk and Inuvik. The meetings usually dealt with local issues, program updates, and permits. Meetings were also held with special interest groups, and included career days, trade shows and government meetings.

Esso conducted several tours of its Beaufort operations in 1985 for businesses, government, media and communities. Figure 8 provides a list of these tours.

Esso continued to participate in the Beaufort Development Impact Zone Society by attending meetings, providing support personnel and providing funding.

Tuk Base continued to send personnel to major centres in the Northwest Territories to meet with current and potential suppliers.

Community consultation is discussed in more detail in Section 4.1, Community Consultation.

NORTHERN BUSINESS AND EMPLOYMENT EXPENDITURES

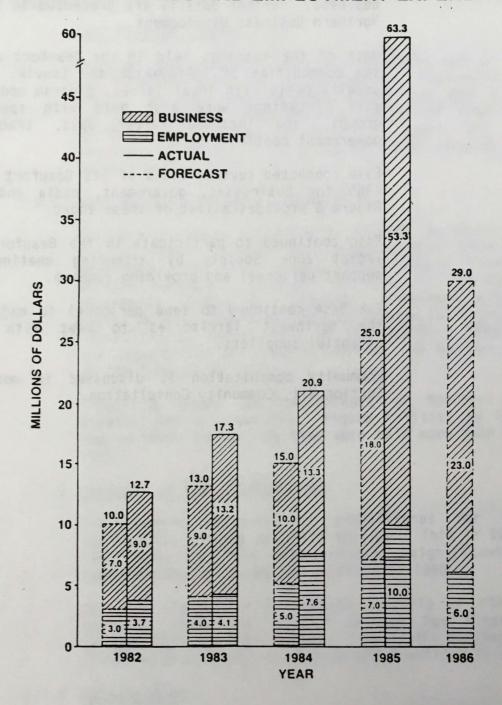


FIGURE 5

1985 PERCENTAGES OF NORTHERN BUSINESS EXPENDITURES BY COMMUNITY

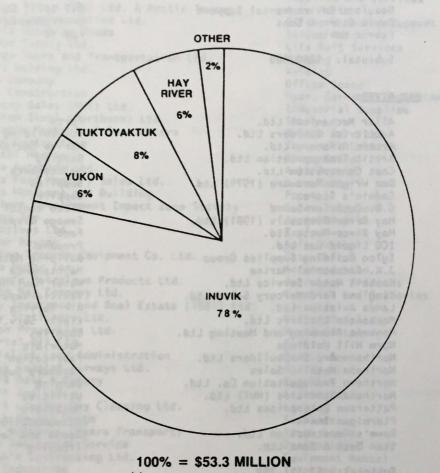


FIGURE 6

NORTHERN BUSINESSES PAID MORE THAN \$1,000 IN 1985

Company

Services or Supplies Provided

AKLAVIK:

Beaufort Environmental Support David Storr & Sons Fabric North

Subtotal: \$260,600

Oil Spill Equipment Environmental Clean Up

HAY RIVER:

Allar Mechanical Ltd. Arctic Ice Builders Ltd. Arctic Offshore Ltd. Arctic Transportation Ltd. Chet Constrution Ltd. Don Wright Hardware (1979) Ltd. Godwin's Stores G.B. Superior Sound Hay River Disposals (1981) Ltd. Hay River Meats Ltd.
ICG Liquid Gas Ltd.
Igloo Building Supplies Group
J.K. Industrial Marine Keith's Water Service Ltd. Kingland Ford Mercury Sales Ltd. Landa Aviation Ltd. Mackenzie Electric Ltd. Monkman Plumbing and Heating Ltd. Norm Hill Holdings Northern Arc Shipbuilders Ltd. Northern Metalic Sales Northern Transportation Co. Ltd. Northand Utilities (NWT) Ltd. Patterson Enterprises Ltd. Ptarmigan Inn Rowe's Construction Ltd. Stan Dean & Sons Ltd.

Subtotal: \$3,111,700 ...

Parts Ice Building Marine Equipment Barging Maintenance Supplies Supplies Video Rental Sewage Disposal Food Propane Building Materials Maintenance Water Hauling Vehicle Repair Air Service Elect. Serv. and Supplies Supplies Materials Fabrication Hardware Supplies Barging Utilities Materials Accommodation Goods and Services Trucking

INUVIK:

Acklands Ltd.
Aklak Air Ltd.
Aklavik Flying Service Ltd.
Ando Enterprises

Industrial Supplies Air Service Air Service Materials

INUVIK: (Cont'd)

Andre's Welding Ltd. Arctic Dawn Enterprises Ltd.
Arcticlean Janitorial Arcticlean Janitorial Arctic Esso Arctic Laboratories Ltd. Arctic Painting & Dev. Arctic Painting & Dev.

Arctic Plumbing

Arctic Tire (1980) Ltd. & Arctic Towing

Arctic Transportation Ltd.

Painting

Supplies and Services

Auto Parts

Offshore Marine Support Atanik Sporting Goods Av Mar Supply Ltd.

Beluga Tours and Transportation Ltd.

Beluga Tours and Welding Bob's Welding Ltd. Bush Company Carn Construction Century Sales (NWT) Ltd.

Chatham Steel (Northern) Ltd.

Chichelm Machine Steel (Northern) Ltd.

Hydr. Garbage Compact Industrial Supplies
Steel Chisholm Mechanical Contractors Repair Services Coady Contracting Coastal Marine Delta Autobody Ltd. Delta Ford Mercury Sales Ltd. Delta Hardware and Building Paint
Beaufort Development Impact Zone Society General Support Eskimo Inn Explosives Ltd. Father Ruyant Finning Tractor Equipment Co. Ltd. Finto Motor Inn Hansen's Petroleum Products Ltd. Hudson Bay Company Ltd. Husky Insurance and Real Estate (1981) Ltd. Licenses
Husky Stationery Ltd. Office Su Hutton Properties Ltd. Imperial Oil Ltd. Inuvialiut Land Administration Inuvik Coastal Airways Ltd. Inuvik Deli & Bakery Inuvik Deli & Bakery Inuvik Inn Ltd. Inuvik Laundry Dry Cleaning Ltd. Laundry
Inuvik Rexall Drugs Supplies J & L Holdings (Byers Transport)
Jacob Janitorial Service
Jensen's Contracting Ltd. Keen Industries Kenn Borek Air Ltd. Mack Travel Ltd.

Marine-Air Cargo Ltd.

Marshall Refrigeration

Matco Transportation Len Cardinal Transportation Matco Transportation Systems

Welding Janitorial Services Janitorial Services Fuel Research Skidoo Parts Life Raft Services Office Space Hydr. Garbage Compaction Equipment Leasing Barge Rental Auto Repair Auto Parts Paint Accommodation Explosives Soft Drinks Cat. Parts Accommodation Petroleum Products Supplies and Groceries Office Supplies House Rental Permit Coac-Air Service Supplies Truck Lease Janitorial Equipment Trucking Equipment Rental Air Service Barging Repairs and Service Freight

INUVIK: (Cont'd)

Mississquoi Electric (Inuvik) Ltd. Norm's Building Supplies Ltd. North Star Service & Construction Ltd. Northern Canada Power Commission Northern Metalic Sales (Denuit) Northwestel Inc. Okanagan Helicopters Ltd. PM Supply Service Pacific Western Airlines Photo Script Ltd. Pluim Contractors Ltd. Points North Transportation Ltd. Polar Electric Davic Ltd. Polar T.V. R. Angus Alberta Ltd. RDR Sports (1978) Ltd. Roberts Rathole Drilling Ltd. Rocky's Plumbing & Heating Ltd. Sunrise Helicopters Tee Jay's Homestyle Bakery TLR Leasing Victor Edward Balla Westec Electric Ltd. Miscellaneous Companies (from Schlumberger's reports)

Subtotal: \$41,260,100

Services Building Supplies Road Construction Utilities Industrial Supplies Telephone Helicopter & Crew Service Travel Photography Leasing Equipment Trucking and Barging Electrical Parts TV Service Cat. Repair & Parts Sporting Goods Pile Installation Plumbing and Heating Helicopter Rental Food Vehicle Leasing Electrical Service Electrical Supplies Services & Supplies

NORMAN WELLS:

Beaufort Mechanical Services Berwick Oilfield Services Big Valley Enterprises Canoal Welding Mackenzie Mountain Services Services
Norwel Inn Accommodation
Norman Wells Transportation Ltd. Norwel Developments Ltd. Page Flight Services Ltd.

Subtotal: \$31,700

Services & Supplies Services Services Welding Equipment Lease Supplies Air Service

TUKTOYAKTUK:

Alfa Enterperises Arctic Exploration Services (NWT) Ltd. Arctic Transportation Ltd. Beaufort Food Services Beau-Tuk Marine Services

Water Truck Flight Watch Marine Service Supplies Personnel, Goods and Services

Company

Services or Supplies Provided

TUKTOYAKTUK: (Cont'd)

Beautuk Sterling Cockney Services

Dowlands Contracting

E. Felix Enterprises

E. Gruben Transportation Ltd.

Fred Wolki Bear Monitoring

Hamlet of Tuktoyaktuk

Monitoring

Bear Monitoring

Harbour Management

Bear Monitoring Jimmy Jacobsen Bear Monitoring
Jim Raddi
Kikoak Transportation
Kroliat Construction
Lena Kikoak Processing

WATSON LAKE:

David McIlmoyle Pallets, Boxes
Grant Stewart Grant Stewart
Lorne Desrosiers
Northern Auto Supplies
Auto Parts
Nugget Restaurant
Raketti Construction
Ray Dyck
Tilden
Variety Drugs
Watson Lake Forest Products
Watson Lake Oil Distributors

Sawdust
Auto Parts
Meals
Construction
Installation
Vehicle Rental
Cleaning Supplies
Wood
Accommodation
Grease, Oil, Tank Rental Grant Stewart Lorne Desrosiers

Subtotal: \$1,216,300

WHITEHORSE:

Boatswain Enterprises Ltd. Hardware
EBA Engineering Ltd. Service
Industrial Electric Personnel
Jacobs Industry Co. Ltd. Machinery
M & R Mechanical Contractors Services & Personnel
Midnight Sun Drilling Co. Rathole Drilling
Northern Canada Power Commission Electricity

Crane Kroliat Construction
Lena Kikoak Bus Service
McDonald Bros. Electric Ltd.
Northern Transportation Co. Ltd.

Phillips Cleaners
Pingo Park Lodge
Tuk Enterprises
Tuk Vacuum Services
Tuk Tuk Tours & Services

Support
Well Monitoring Survey

Employee Transportation
Construction
Staff Transportation
Elect. Goods & Services
Offshore Construction
Support
Laundry
Accommodation
Supplies
Water Truck
Well Monitoring Survey

Pallets Trucking Sawdust

Company

Services or Supplies Provided

WHITEHORSE: (Cont'd)

Northern Metallic Sales (NWT) Northwestel Inc. Trans North Turbo Air Ltd. Waterous G.M. Diesel Ltd. Whitehorse Motor Ltd. White Pass Trucking Yukon Freightlines Ltd.

Subtotal: \$2,067,100

Materials Communication Air Service Parts Parts Trucking Trucking

YELLOWKNIFE:

Explorer Hotel
Federal Business Development Bank
Fred Ross & Associates Ltd.
Government of NWT
Northwestel Inc.
Northwest Transport Ltd.
Outcrop Ltd.
Pacific Western Airlines
Peterson & Auger Ltd.
Territorial Beverages Ltd.
Thomson, Underwood, McLellan Surveys Ltd.
Type Unlimited
Ptarmigan Airways
Workers' Compensation Board
Yellowknife Inn

Subtotal: \$298,900

OTHER COMMUNITIES YUKON:

Subtotal: \$897,600

OTHER COMMUNITIES NWT:

Subtotal: \$47,200

GRAND TOTAL*:

\$53,625,200

Accommodation
Services
Personnel
Landholders
Telephone
Trucking
Printing
Travel
Supplies
Soft Drinks
Surveying
Secretarial
Aircraft
Fees
Accommodation

^{*}This total differs from the reported \$53.3 million due to variations in time periods of individual accounts and due to rounding of amounts.

1985 BEAUFORT INFORMATION TOURS

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Pest Flancod

MONTH	GROUPS TOURED
January	o COGLA Representatives
To coldatab	o Native Group from Alaska
	And France order control with the most better and Easo but
February	o Media Personnel
and the land and the	o media Personnei
March	o Crew and Company Representatives for Ice
	Reconnaisance
July	o Department of Energy, Mines and Resources
	Representatives
	 Northern Personnel of Employment and Immigration Canada
2.2.3 Bush	less Concallada di secon oruszona o
August	o National Film Board Representatives
	o Hibernia Assessment Review Panel Members
September	o Representatives from the Environmental
	Protection Service of Environment Canada
	o Toronto Board of Trade Representatives
	o Potential Beaufort Investors o Home Oil Personnel
	o Home Oil Personnel o Members of the Beaufort Development Impact Zone
	Society
	o Representatives of Hunters and Trappers
	Associations
November	o Representatives from COGLA and the Department of
	Indian and Northern Affairs
December	o Petroleum Incentives Program Representatives
	A STATE OF THE PARTY OF THE PAR

Serie

2.2 SUPPLIER DEVELOPMENT

2.2.1 Canadian Market Opportunities Program

In 1985, Esso Resources was a leading participant in the Canadian Market Opportunities Program (CMOP). This program is an oil industry initiative and has also representatives from government agencies. Esso's participated in the CMOP Planning and Steering committees, and the Opportunities, Communications and Guidelines subcommittees.

CMOP activities during the year were numerous, with the main activity being the production of a CMOP Guide designed to bring together the supply and demand sectors. The Guide was made available to suppliers, oil companies, supplier and manufacturer associations, government agencies, and other interested groups and individuals. The guide includes supply and demand forecasts and identifies supply gaps of certain products commonly purchased in the petroleum industry. The products examined are:

- o pressure vessels
- o compressors, fans and blowers
- o manual valves
- o control valves
- o pipe fittings
- o industrial heat exchangers
- o instrumentation equipment
- o construction, mining and handling equipment
- o pipe and tubing
- o pumps
- o switchgear and protective equipment
- o boilers and boiler parts
- o environmental equipment
- o drilling material and equipment

In addition to the above activities, Esso Resources assisted CMOP in the staffing of an information booth at the BIG '85 Trade Show in Inuvik.

2.2.2 Northern Business Development

Business opportunity meetings were held in Yellowknife, Whitehorse, Inuvik, and Hay River.

Esso representatives attended the three-day Whitehorse Trade Show in May and the BIG '85 Trade Show in Inuvik in June.

Magcobar's barite mine at Fireside, B.C., which was opened in 1984 to supply an Esso contract, remained open in 1985. In 1985, Magcobar spent \$2.2 million in Whitehorse and \$1.2 million in Watson Lake to mine barite and transport it to the Tuk Base. Magcobar also now has the capacity to produce enough barite to supply Alberta and to export to the United States.

In 1985, the local Materials Group reviewed recent Esso purchases to identify opportunities for contracting the supply of frequently used materials to Northern companies. Agreements for supplying automotive parts, paint, and safety clothing were established as a result of this review. Both the contracted vendors and Esso benefit from these agreements: the vendors can count on and plan for the contracted purchases and Esso's procurement process is more efficient.

As in other years, Esso monitored its purchase and service orders to obtain an information base for its efforts in increasing the share of spending in the North.

2.2.3 <u>Business Communications</u>

Information on Esso's exploration programs and the participation of Northern business continued to be published regularly in "Esso North."

A Northern Esso employee represented the company at the Inuvik Chamber of Commerce. Through this member, Esso contributed to the preparations of the first trade show in Inuvik called the BIG '85 Trade Show.

Esso employees responsible for Materials and Services continued to frequently contact Northern suppliers. Special pre-bid meetings were held with local contractors to review the business opportunities related to the tertiary drilling program.

2.2.4 <u>Internal Measures</u>

In 1985, Esso took several internal measures to assist supplier development. Esso continued to increase the awareness of its employees and contractors of the company's Canadian and Northern benefits program. Meetings with contractors were held before bid requests were sent out to ensure that the contractors understood Esso's

policies, particularly policies on Northern benefits.

Meetings were also held with the contractors four months
before the start of winter operations to explain how to
complete bids for Esso.

The full-time Materials Supervisor assigned in 1984 to Tuk Base continued to assist Northern purchasers in 1985 and was involved in the review of procurement practices discussed in Section 2.2.2, Northern Business Development.

Esso's Northern Business Directory, which lists Northern supply and service companies, was updated in 1985.

2.3 TECHNOLOGY TRANSFER

Esso continued to involve its associates in the operating and technical aspects of the exploration program through associate input into the Technical and Operating committees. Figure 9 lists the information presented to the Technical Committee and Figure 10 lists the information presented to the Operating Committee.

Associates and contractors were also invited to participate in Esso's loss control initiatives in 1985. These initiatives consisted of the following:

- o assigning two full-time loss control advisors to the Beaufort
- o requiring each major contractor to hold loss-control meetings
- o testing the Fitzwright helicopter survival suits and using them on helicopter flights over water
- o training 220 persons at Tuk Base in sea survival
- o developing site-specific loss-control programs (based on Esso's Ten Element Program) for land drilling, sacrificial islands, caisson-retained islands and the Tuk Base
- o holding special seminars for first-line Esso and contractor supervisors on loss-control reponsibilities. The following topics were discussed:
- . cause of accidents
 - . accident trend analyses
- . the importance of near-miss and hazard reporting
 - o conducting internal audits of the effectiveness of the loss-control programs

2.4 Technical Research

In 1985, Esso conducted the research studies listed in Figure 11. This research was under the direction of Canadian companies and was conducted in Canada. Research expenditures in 1985 were \$1.6 million.

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TECHNICAL INFORMATION PRESENTED TO THE TECHNICAL COMMITTEE

- Pad Design for Taglu H-06 Location
- Kaubvik Casing Design Program
- Tuk J-29 Testing Program
- Tuk J-29 Surveying System
- Tuk Tertiary Program (Testing)
- Key Issues and Procedures for Nipterk L19-A Directional Drilling
- Oil Base Muds for Nipterk L19-A
- Rig Modifications for Oil Base Muds
- Island Abandonment and Scalping Technique
- Kaubvik Relief Well Plan
- Bow Discharge Caisson Filling Technique
- New Materials for Island Construction

FIGURE 9

TECHNICAL INFORMATION PRESENTED TO THE OPERATING COMMITTEE

- Well Design
- Ice Road Technology
- Hovercraft Application
- Well Abandonment Procedure in Permafrost
- Permafrost Layer Identification
- Hydrocarbon Occurrence
- Kaubvik Relief Well Plan

FIGURE 10

TECHNICAL RESEARCH STUDIES

Topic	<u>Description</u>	<u>Participants</u>
COLLECTION OF DATA ON CAISSON- RETAINED ISLAND	Collection and analysis of ice, geotechnical and atmospheric data from the caisson-retained island at Amerk	Esso Research Department
EROSION PROTECTION	Numerical modelling of fine-grained soils to determine erosion rates of island beaches and toe protection needed around the caisson-retained island	Esso Research Department, Acres International Limited
SAND QUALITY	Continued work on the properties of fine-grained soils deposited hydraulically to determine minimum gravel specifications required for building islands with steep side slopes	Esso Research Department Gulf Corporation Golder Associates Komex Consulting Ltd. U of Calif., Davis Hughes In Situ Engineering Ltd.
SOFT FOUNDATION BEHAVIOUR	Examination of the foundation behaviour below exploration islands in the Beaufort to optimize future island structural designs	Esso Research Department, Golder Associates, U. of Calgary
SPRAY ICE PARAMETERS	Field and laboratory tests on the strength parameters of spray ice to assess if a spray ice ridge could be used as a barrier around platforms	Esso Research Department, Golder Associates
DISPERSANTS IN COLD WATER	Large-scale tests of the efficacy of several oil dispersants in cold water	Esso Research Department, Environment Canada (EPS)

3.0 EMPLOYMENT AND TRAINING

3.1 RECRUITMENT

3.1.1 Recruitment Programs

To increase Northern employment in 1985, Esso:

- o maintained its Inuvik office recruitment staff of four Northerners
- o liaised closely with the major contractors, both before contracts were signed and while the contractors were working, to ensure that Esso's Northern employment policies were followed
- o provided recruitment services through its Inuvik office for its contractors. A number of contractors used these services.
- o adjusted job entrance requirements to allow work experience and demonstrated skills to be considered as a substitute for formal education requirements
- maintained recruiting activities in most communities of the Western Arctic
- o continued its transportation policy which allows Esso's and contractors' personnel to be transported from most Western Arctic communities to the work sites at Esso's expense

3.1.2 Recruitment Sources

The recruitment of Northern employees by community is shown in Figure 12.

3.1.3 Recruitment Visits

During 1985, 17 recruitment visits were made to Beaufort area communities. New employment opportunities were publicized to communities in the immediate area, including: Tuktoyaktuk, Arctic Red River, Fort McPherson, Aklavik and Inuvik.

1985 RECRUITMENT PERCENTAGES BY COMMUNITY

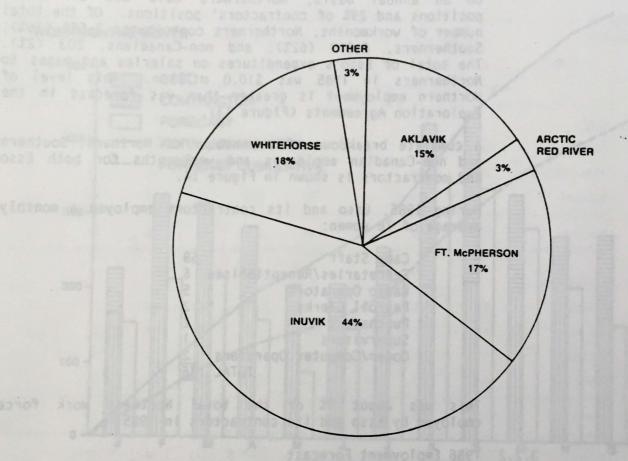


FIGURE 12

and control of the best and the least of the level shown in Figure

3.2 EMPLOYMENT

3.2.1 1985 Employment Statistics

In the Beaufort operations, Esso and jts contractors generated an average of 841 positions per month and 10,090 workmonths over 1985. These employment levels exceeded those forecast in the Exploration Agreements.

On an annual basis, Northerners held 60% of Esso's positions and 29% of contractors' positions. Of the total number of workmonths, Northerners contributed 3,588 (36%); Southerners, 6,299 (62%); and non-Canadians, 203 (2%). The total of Esso's expenditures on salaries and wages to Northerners in 1985 was \$10.0 million. This level of Northern employment is greater than was forecast in the Exploration Agreements (Figure 13).

A complete breakdown of the number of Northern, Southern and non-Canadian employees and workmonths for both Esso and contractors is shown in Figure 14.

During 1985, Esso and its contractors employed a monthly average of 76 women:

Camp Staff	58
Secretaries/Receptionists	6
Radio Operators	5
Payroll Clerks	2
Purchasers	2
Supervisors	1
Coder/Computer Operators TOTAL	$\frac{2}{76}$

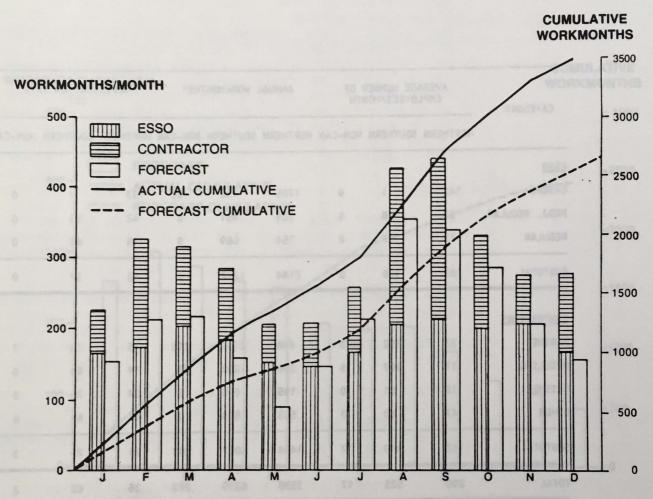
This was about 9% of the total Northern work force employed by Esso and its contractors in 1985.

3.2.2 1986 Employment Forecast

In 1986, the final year of the Exploration Agreements, employment will be maintained at the level shown in Figure 14 for the first quarter and then will decrease gradually until the end of 1986. Figure 15 shows the monthly forecasts of number of workmonths for Northerners in 1986. Due to the uncertainties of the program, Esso is unable to forecast 1986 employment in detail.

Plans for 1987 have not been finalized, but the level of activity will be significantly reduced.

1985 NORTHERN EMPLOYMENT BY MONTH



IN 1985, NORTHERNERS CONTRIBUTED 3588 WORKMONTHS, 36% OF THE PROJECT TOTAL OF 10,090 WORKMONTHS.

1985 EMPLOYMENT STATISTICS

CATEGORY		AGE NUMBEI LOYEES/MOI		ANNUAL WORKMONTHS* PARTICIPATION RATE (%)						
	NORTHERN	SOUTHERN	NON-CAN	NORTHERN	SOUTHERN	NON-CAN	NORTHERN	SOUTHERN	NON-CAN	
ESSO						rekosa	07			
CASUAL	142	11	0	1705	132	0.	93	7	0	
PROJ. REGULAR	27	38	0	325	451	0	42	58	0	
REGULAR	13	57	0	154	689	0	18	82	0	
SUBTOTAL	182	106	0	2184	1272	0	63	37	0	
CONTRACTORS										
MARINE	37	192	203	440	2303	203	15	78	7	
DRILLING	17	107	0	206	1280	0	14	86	0	
SEISMIC	16	51	0	195	615	0	24	76	0	
OTHER	47	69	0	563	829	0	40	60	0	
SUBTOTAL	117	419	17	1404	5027	203	21	76	3	
TOTAL	299	525	17	3588	6299	203	36	62	2	

FIGURE 14

1986 NORTHERN EMPLOYMENT FORECAST BY MONTH

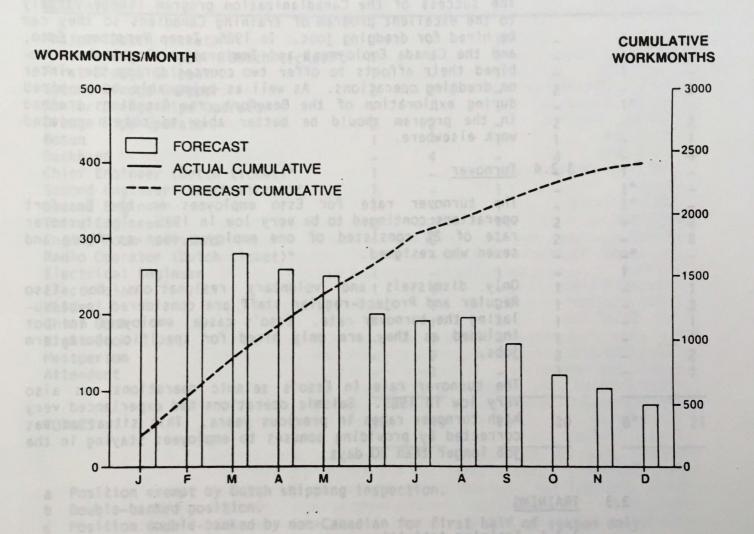


FIGURE 15

F16.530

3.2.3 Canadianization Programs

The Canadianization of the crews of the contracted dredges proceeded at a faster pace in 1985 than was originally expected. Figures 16 and 17 show the Canadianization over time of the crews of the <u>W.D. Gateway</u> and the <u>Cornelis Zanen</u> dredging vessels.

The success of the Canadianization program is due largely to the excellent program of training Canadians so they can be hired for dredging jobs. In 1985, Zanen Verstoep, Esso, and the Canada Employment and Immigration Commission combined their efforts to offer two courses during the winter on dredging operations. As well as being able to be hired during exploration of the Beaufort, the Canadians trained in the program should be better able to obtain related work elsewhere.

3.2.4 Turnover

The turnover rate for Esso employees in the Beaufort operations continued to be very low in 1985. The turnover rate of 2% consisted of one employee who was fired and seven who resigned.

Only dismissals and voluntary resignations for Esso Regular and Project-regular staff are considered in calculating the turnover rate. Esso's casual employees are not included as they are only hired for specific short-term jobs.

The turnover rate in Esso's seismic operations was also very low in 1985. Seismic operations had experienced very high turnover rates in previous years. This situation was corrected by providing bonuses to employees staying in the job longer than 20 days.

3.3 TRAINING

3.3.1 Training Activities

Employee training is an integral part of Esso's Employee Development Program. The training provided to employees varies from position to position, but the major component is on-the-job training complemented with regular training sessions on job-specific topics.

New employees are trained by their immediate supervisors.

CANADIANIZATION OF THE CORNELIS ZANEN

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a Position exempt by Dutch shipping inspection.

b Double-banked position.

c Position double-banked by non-Canadian for first half of season only.

d Advisory position.

^{*} Two of these positions were double-banked positions for the first half of the season only.

^{**} Includes three advisory positions.

CANADIANIZATION OF THE W.D. GATEWAY

	NEW YORK	1982	1.50	1983		198	4	198	5
OCCUPATION	.00	Non-Can.	Can.	Non-Can.	Can.	Non-Can	. Can.	Non-Can	. Can
Captain		1	_	1	_	1			SWII-
Captain Trainee		-	-		10 + 5 1	1,100-	1	about of	1
First Mate (Dredge Skipper) Second Mate		1	-	5 1	-	1	- 4	1	993-
(Dredge Skipper)		1	-	1	-	1	- 50	90 9-91B	1
Third Mate		-	1	-	1	-	1	- 10	1
Third Mate		-	1	-	1	-	1	1 - 1 (d)	. 1
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Pipeman		3		2	-	1	2	150-110	3
Pipeman Trainee		-	1	-	2	-	1	DAIS-1910	11 -
Chief Engineer			9 -		-		-	- 100	1
Adv. Chief Eng.		7 7	1	-	T	-	-		-
First Engineer		1	_	1	_	_	1		1
Second Engineer		1	-	-	1	-	1	\$2-00S	111
Third Engineer			2	-	2	-	2	456	2
Third Eng. Traine	е	-	1		-	-	-	1	-
Electrician Elect. Trainee			-	23	-	0.5	0.5	-24	
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Note: Two Canadian divers were also working in 1982.

3.3.2 Training Statistics

In addition to regular on-the-job training, Esso employees receive formal training in job-related skills. In 1985, 771 workdays of formal training were provided to all Esso employees; 90 of these training days were provided to Northerners. The courses were aimed at developing skills in the trades, drilling, support services and materials management.

In addition to providing training within Esso's operational activities, training was supported through Esso's contribution to Tuk Tech. In 1985, Esso provided accommodation at its Tuk Base for twelve Tuk Tech students. (Esso hired one of these students after she completed her studies.)

3.4 SPECIAL MEASURES

3.4.1 Orientation Program

Supervisors provided orientations to new Northern employees. They reviewed safety, job requirements, employment terms, pay and benefits. As well, supervisors familiarized new employees with the work area.

3.4.2 Supervisor Training

Supervisors from both Esso and its contractors were given in Edmonton two 3-day training seminars, called "Supervising in a Northern Environment." Twenty-nine Esso supervisors, eight contractors' supervisors, and several federal and territorial government representatives attended these seminars.

During the seminars, Esso staff and Northern advisors reviewed the social and political aspects of the Northwest Territories concentrating on the need for improved communication. Course evaluations indicated that the supervisors appreciated the course and its applicability to their roles in the North.

3.4.3 Employee Couselling

The responsibility for the counselling of Northern employees was transferred to Esso's Inuvik office where three Human Resources employees are available to provide counselling services.

4.0 SOCIO-ECONOMIC ISSUES

4.1 COMMUNITY CONSULTATION

Esso continued to attend community meetings in the Northwest Territories and Yukon, especially in Tuktoyaktuk, Inuvik and Aklavik. At the meetings, Esso representatives learned of communities' concerns, obtained community advice and discussed how the communities could be involved in the industrial activities. In 1985, for example, community input was considered in planning the management of effluent from seismic camps.

Esso met with the Tuktoyaktuk Hunters and Trappers Association and the Hamlet Council to review the use of Tuktoyaktuk Harbour. The issue concerning ship crossings was not fully resolved, but procedures for improving the safety of crossings were agreed upon. Also, Esso participated in a joint community-government-industry committee studying recommendations for improving harbour management.

In 1985, Esso and the Inuvialuit Land Administration negotiated land use agreements under the regulations resulting from the Western Arctic Land Claims Settlement. This settlement, ratified by parliament in 1984, gave some land and surface rights to the Inuvialuit. The following agreements were signed in 1985: on November 11, 1985, the Oil and Gas Concession Agreement; on January 31, 1985, the Cooperation Agreement; and throughout 1985, various Participation Agreements. These agreements were subsequent to the Memorandum of Understanding signed on October 5, 1984.

Under the agreements, Esso obtained 17 land use permits for seismic access roads, drilling sites and radio repeater stations. These agreements will continue to provide the basis for land use in future exploration and development programs.

Esso continued to be involved in the Beaufort Development Impact Zone Society as in 1984 by:

- o providing financial support
- o participating in the meetings
- o arranging tours of industry facilities
- o improving the society's understanding of the oil industry

A new activity in 1985 was the experimentation with new community communication procedures with the Beaufort Development Impact Zone Society. The new procedures are intended to improve Esso's collection and use of community input.

Esso continued to issue "Esso North," a much appreciated publication about its northern operations, which includes information on the exploration program, business contracts, employment, and personal experiences of Northern staff.

4.2 MONITORING RENEWABLE RESOURCE USE

In 1985, Esso continued monitoring of renewable resource use by:

- o continuing its whale monitoring program started 12 years ago
- o contracting local people for general shore cleanup
- o meeting regularly with local councils and Hunters and Trappers Associations in Aklavik, Inuvik and Tuktoyaktuk
- o working closely with special interest groups to obtain their input and concerns about resource use

4.3 CONTROLLING SOCIAL AND CULTURAL IMPACTS

Esso is managing the Beaufort exploration activities in a manner that maximizes the Northern economic benefits while minimizing the negative social and cultural effects. The programs for business development, employment, and training described earlier in this report were undertaken to maximize benefits. Other programs, such as community consultation, employee counselling, employee orientation, and special seminars for supervisors were undertaken to minimize any negative imacts. Additional efforts to minimize negative impacts include Esso's following camp regulations:

- o shift rotations of two weeks on and two weeks off
- o dry camps
- o luggage checks
- o no firearms allowed in camps
- o no access to communities
- o direct flights to take employees to their home communities

Esso monitors the impact of its operations carefully through community visits, staff observation, counselling and through the Beaufort Development Impact Zone Society. When an observed social or cultural change is directly related to the exploration program, Esso mitigates the impact in the best possible way.

In the North, however, it has to be acknowledged that the fabric of Northern life is changing rapidly. Reasons for these changes are often independent of Esso's operations. Northerners are becoming deeply involved in today's technological and economic society and are ceasing to rely on the traditional way of life for their major livelihood. In their attempts to adapt to this new economic environment, Northerners are looking for entry

opportunities, training, and functional experience. Esso, through its operation in the Beaufort, is pleased to have been able to contribute to this complex development process.

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